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Easily fitted cotyloid implant, for use as orthopedic implant for hip joint, comprises metal cup with completely smooth internal cavity and external surface with fixing zone and positioning and orienting zone

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Patent Family (1 patent, 1 country)

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Patent Details

| Patent Number | Kind | Language | Pages | Drawings | Filing Notes |
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Alerting Abstract: FR A1

NOVELTY - A cotyloid implant comprises a metal cup (1) with (a) a completely smooth internal hemispherical cavity (1a) and (b) an external surface with (i) a fixing zone (1b) for press-fitting in the cotyloid cavity, having fixtures (1d) for mounting stabilizing flanges, hooks and/or ribs and (ii) a cavity positioning and orienting zone (1c).

DESCRIPTION - In a cotyloid implant comprising a metal cup (1), to be impacted into the iliac bone cavity and to receive a fixed or mobile core cooperating with a femoral head, the cup has: (a) a completely smooth internal hemispherical cavity (1a) free of screw holes; and (b) an external surface with (i) a fixing zone (1b) for press-fitting in the cotyloid cavity, parallel to the equatorial plane and having fixtures (1d) for mounting stabilizing flanges, hooks and/or ribs and (ii) a zone (1c) for positioning and angularly orienting the cavity.

USE - As an orthopedic implant for a hip joint.

ADVANTAGE - The same type of cup can be fitted easily, reliably and effectively, irrespective of the condition of the bone (i.e. in healthy bone, where a press-fitting alone is sufficient; or in damaged bone, where complementary stabilizing flanges, hooks and/or ribs are necessary). No fixtures are required in the interior cavity of the cup, thus avoiding roughened areas which might mark the core (especially in the case of a mobile core).

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of a cup device.

1 Cup

1a Smooth, hemispherical internal cavity

1b Fixing zone

1b1 Roughening hollows and reliefs

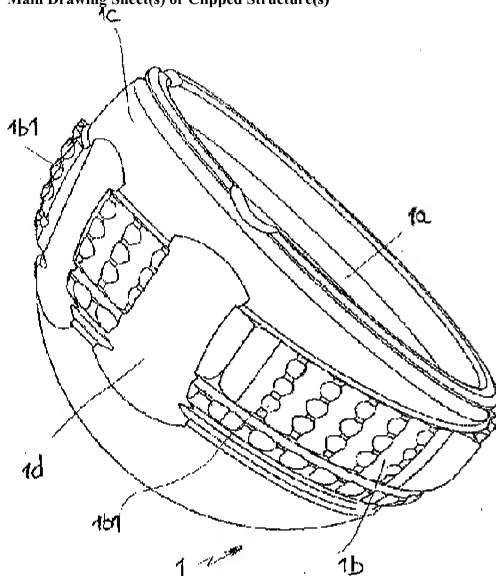
1c Positioning and orienting zone

1d Profiled grooves

Technology Focus:

INSTRUMENTATION AND TESTING - Preferred Device: The mounting fixtures (1d) are profiled grooves, preferably oriented to allow mounting of the flanges, hooks and/or ribs starting from the polar region of the cup and before impaction. The fixing zone (1b) has roughening hollows and reliefs (1b1). The positioning and orienting zone (1c) is formed above the fixing zone, and consists of an inclined rim or cap (specifically angled at 5-10(deg)) with the highest part located (after impaction) above and behind the direction of the ilium.

Main Drawing Sheet(s) or Clipped Structure(s)



International Patent Classification

| IPC | Level | Value | Position | Status | Version |
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